

Meekins, Tanya

From: Steven Levy <info=biodiesel.org@mail176.atl61.mcsv.net> on behalf of Steven Levy <info@biodiesel.org>
Sent: Thursday, January 08, 2015 2:01 PM
To: Korotney, David
Subject: Will I see you there?

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Hi David,

We have something in common. We both work in one of the most unpredictable industries - biodiesel. If there is one thing I have learned in my many years of experience, it is that we must work hard, remain flexible, and embrace innovation in order to survive.

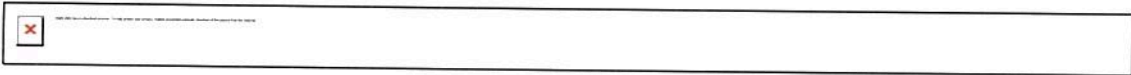
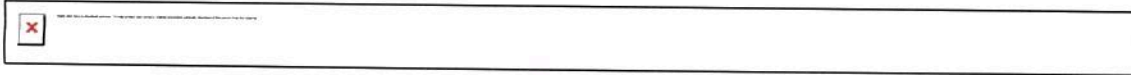
At Sprague, we do not stop there. We prefer to do more. We seek knowledge and connections. The National Biodiesel Conference & Expo gives us the vehicle to do just that. This conference keeps my team up-to-date on research, policies, and trends. It allows us to connect and collaborate. It is our platform to thrive.

Join me in Fort Worth at the National Biodiesel Conference & Expo.
Do more than just survive this year. [Register to attend here.](#)

See you in Fort Worth,
Steven Levy



ED_011313-03/15 011113



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The National Biodiesel Conference and Expo keeps me up to date on market trends and new technologies in biodiesel."

-Steven Levy
Sprague Energy

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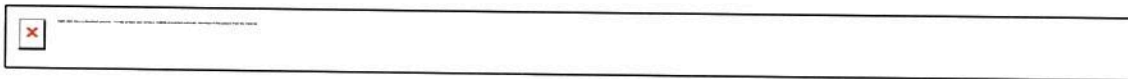
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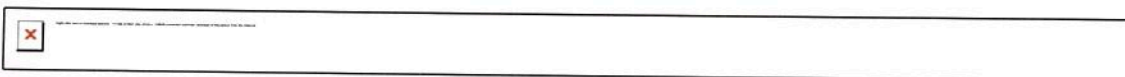
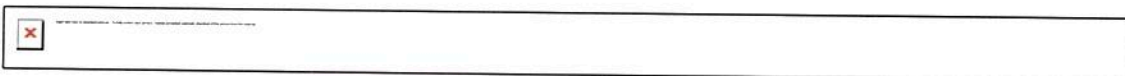
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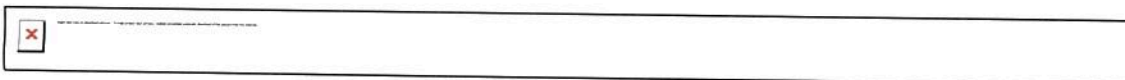
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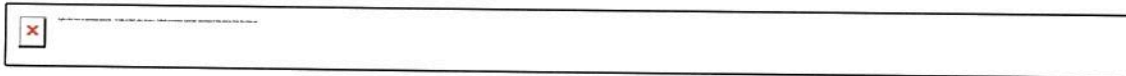
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Sent: Thursday, December 11, 2014 11:02 AM
To: Korotney, David
Subject: Thought you'd find this interesting

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General Session 2

Perspective, policy & partners fueling collaboration

The best teams and strongest families are forged from shared experience; biodiesel is no different. The second of three General Sessions will tackle adversity's role in making the biodiesel industry what it is today while preparing us for what's to come. We'll take a deep dive into policy, bringing popular former Members of Congress-turned-biodiesel consultants Byron Dorgan and Kenny Hulshof back to the stage. We'll also welcome American Automotive Policy Council President and former Missouri Governor Matt Blunt for his perspective as a veteran, statehouse leader and biodiesel and alternative fuel supporter. This is information and insight you can't gain second-hand!

A session you won't want to miss.


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Sent: Tuesday, December 09, 2014 10:02 AM
To: Korotney, David
Subject: For your information

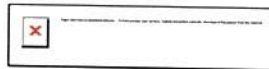
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General Session 1: Trying to Outrun the Wind

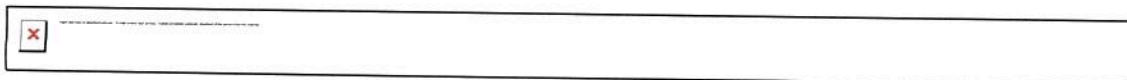


Dr. Valerie Patrick

Day 1 Keynote Speaker

This past year was much like driving through a fierce wind and thunderstorm - one we kept expecting to subside, but instead it hammered us for what seemed like 14 months. The opening general session of the 2015 Biodiesel Conference & Expo will feature a discussion about how we can get ahead of the storm and move the industry forward to a brighter, more stable future. Hear from NBB's Joe Jobe, energy industry CEOs, and Dr. Valerie Patrick, a former strategist for Bayer North America.

Day 1 Panel



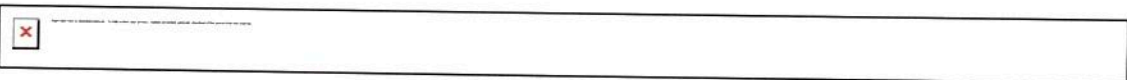
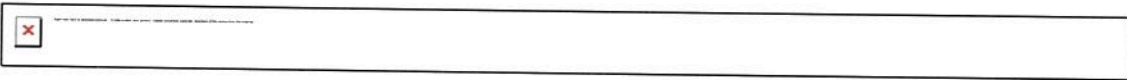
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To: Chris Bliley[cbliley@growthenergy.org]
Cc: Korotney, David[korotney.david@epa.gov]; Anderson, Robert[Anderson.Robert@epa.gov]; Parsons, Nick[Parsons.Nick@epa.gov]; Machiele, Paul[machiele.paul@epa.gov]; Brunner, Christine[brunner.christine@epa.gov]; Sutton, Tia[sutton.tia@epa.gov]; Choi, David[Choi.David@epa.gov]
From: Herzog, Jeff
Sent: Fri 12/5/2014 8:24:52 PM
Subject: Revised Charts on RVP of Blends
Revised Blender Pump RVP Modeling Slides D5.pptx

Chris,

I appreciate your input.

Using equations 6, 8, and 11 in Dr. Reddy's SAE paper, I arrive at 8.19 psi for a 54% ethanol blend made with a 8 psi hydrocarbon. As you pointed out, the nomograph in figure 2 of the SAE paper indicates that the RVP of the blend would be 7.9 psi. I contacted Dr. Reddy to help understand the difference. He related that the nomograph is the more accurate method because it uses detailed gasoline compositions and UNIFAC method of non-ideality estimation. He noted that since it is a graphical method it is not very convenient for incorporating in other models. Hence, he developed the semi-empirical equations in the paper, but they are not as accurate as the nomograph. He stated that this is reason for the ~ 3/10s of a psi difference between the equations and the nomograph in RVP estimation.

Arriving at an answer to your second question was more involved. We reviewed our modeling work and found that we had been inappropriately weighting the RVP contribution of the component blends. I apologize for the confusion. The attached results from our revised model differ significantly from the previous charts we shared with you, and tell a different story. First, it appears that the use of E98 and E10(@9psi) parent blends at blender pumps would result in blends that are compliant with a 9 psi RVP standard. Second, the results suggest that it may be possible to allow EFF made with natural gasoline to be used as a parent blend at blender pumps.

Please express my thanks to Poet's technical staff for their help. We look forward to talking to you again.

Best Regards,

Jeff

Jeff Herzog, U.S. EPA, OTAQ, ASD

(734) 214-4227

From: Chris Bliley [mailto:cbliley@growthenergy.org]
Sent: Wednesday, November 26, 2014 1:19 PM
To: Herzog, Jeff
Cc: Korotney, David; Anderson, Robert; Parsons, Nick; Machiele, Paul
Subject: RE: Chart on RVP of Blends at Blender pumps made with E10 at 9psi and denatured ethanol

Jeff et al,

As mentioned, we'll want to have some follow-up, but Mark and I did want to provide some immediate feedback on the blending RVP modeling from technical staff at Poet Ethanol Products – comments and graph are below. Thanks again and I'm sure we'll talk to you soon.

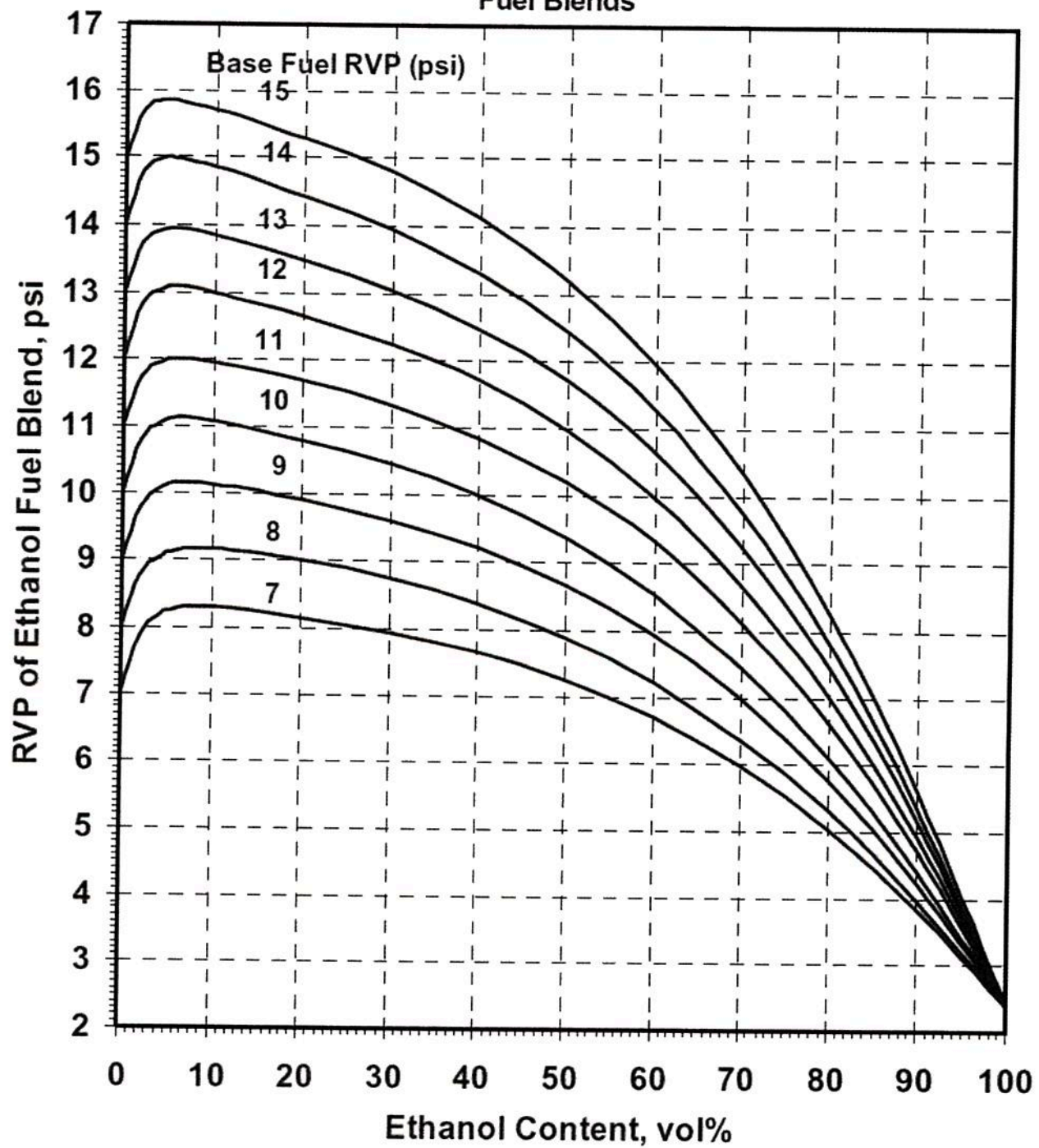
Chris

There is a flaw in their model. If you look at the SAE paper they site, the nomograph titled "Figure 2. Nomograph for Estimating the RVP's of Commingled Fuel Blends", it shows very clearly that at a 50% ethanol concentration and 8 PSI hydrocarbon the RVP is back to the original hydrocarbon RVP. As the hydrocarbon RVP increases, the RVP of a 50% ethanol blend decreases below the original hydrocarbon RVP. This SAE paper also states the RVP of a hydrocarbon blend can be estimated by a weighted average calculation. See Equation 3 in the paper.

Therefore, a 50:50 blend of 9 PSI E10 and E98 with 15 PSI denaturant would consist of 45% CBOB (approximately 8 PSI), 1% denaturant (15 PSI) and 54% Ethanol. This blend would have a hydrocarbon RVP of 8.15 PSI according to the paper. A 50% ethanol blend would have even less denaturant and therefore a lower hydrocarbon RVP. All of these blends would have a total RVP equal to or less than the hydrocarbon RVP according to figure 2. Therefore, the EPA graph showing an increased RVP to greater than 10 psi (an increase of almost 2.5 psi) demonstrates an obvious flaw in the model.

No RVP modeling or testing has ever shown a 2.5 psi increase due to blending ethanol.

Figure 2. Nomograph for Estimating the RVP's of Commingled Fuel Blends



From: Chris Bliley
Sent: Wednesday, November 26, 2014 11:40 AM
To: 'Herzog, Jeff'
Cc: Korotney, David; Anderson, Robert; Parsons, Nick; Machiele, Paul
Subject: RE: Chart on RVP of Blends at Blender pumps made with E10 at 9psi and denatured ethanol

Thanks Jeff and thanks all for the conversation yesterday. We will likely want to follow up on some of the issues – particularly as it relates to the production of E85/EFF.

Thanks again and hope everyone has a good Thanksgiving.

Chris

From: Herzog, Jeff [<mailto:Herzog.Jeff@epa.gov>]
Sent: Wednesday, November 26, 2014 11:35 AM
To: Chris Bliley
Cc: Korotney, David; Anderson, Robert; Parsons, Nick; Machiele, Paul
Subject: Chart on RVP of Blends at Blender pumps made with E10 at 9psi and denatured ethanol

Chris,

Attached is a chart on the RVP of blends at blender pumps made with E10 at 9psi and denatured ethanol. Please pass along to Mark and Tom.

Happy Thanksgiving,

Jeff

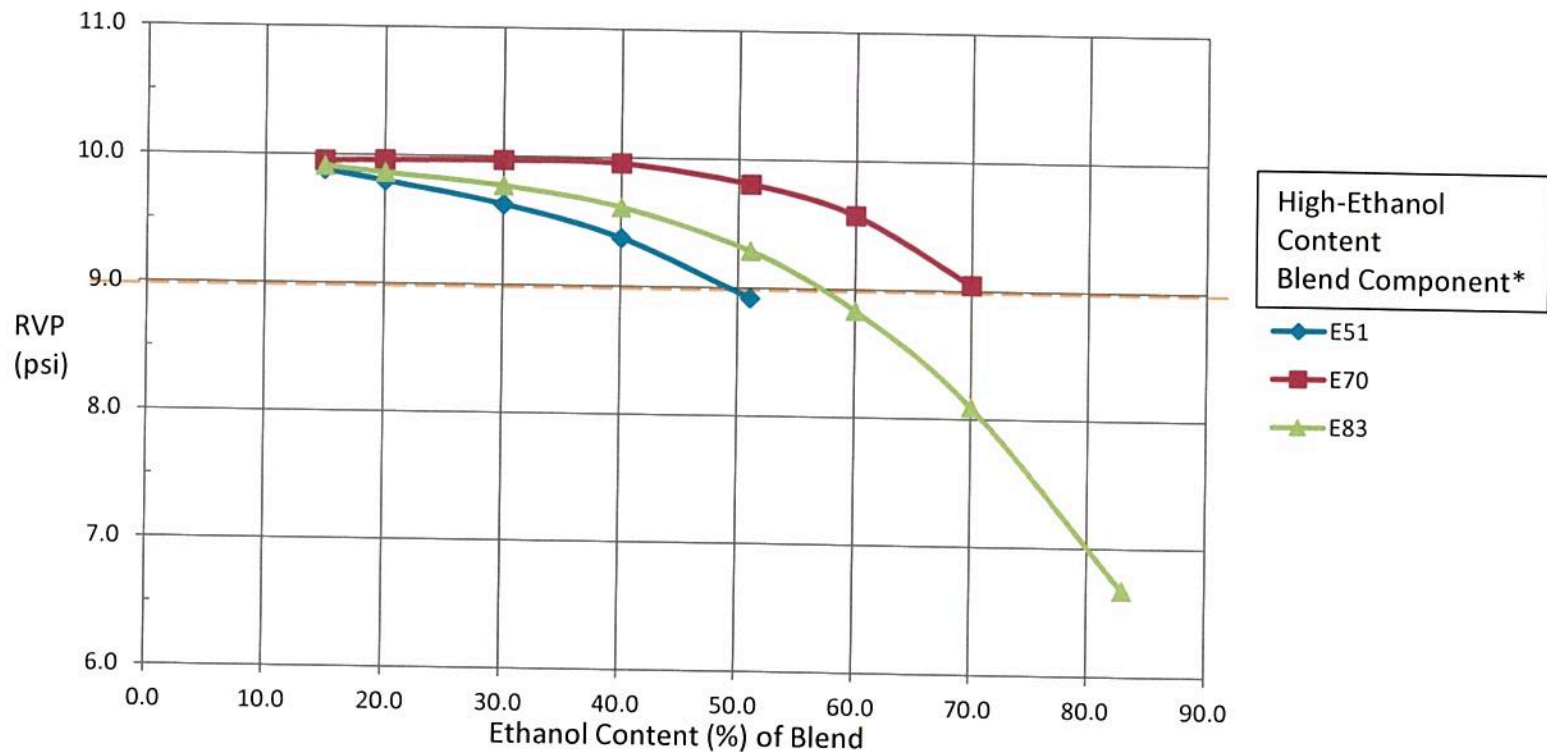
Jeff Herzog, U.S. EPA, OTAQ, ASD

(734) 214-4227

RVP of Blends Made at Blender Pumps

- Chart #1: Blends made with 10 psi E10 and E85 made with average RVP natural gasoline blendstock (& 8.9 psi CBOB)
- Chart #2: Blends made with 10 psi E10 and E85 made with high RVP natural gasoline blendstock (& 8.9 psi CBOB)
- Chart #3: Blends made with 10 psi E10 & E85 made with no natural gasoline blendstock (& 8.9 psi CBOB)
- Chart #4: Blends made with 9 psi E10 & E85 made with no natural gasoline blendstock (& 7.8 psi CBOB)
- Chart #5: Blends made with 9 psi E10 & E98 with 12psi and 15 psi natural gasoline as denaturant

Chart #1: RVP of Blends Made at Blender Pumps Using E10 @ 10 psi & 9 psi Max. E85* That Contains Average RVP (12 psi) Natural Gasoline 8.9 psi CBOB Used to Make E85 (as Needed)**



* E51 @ 9 psi contains: 47% CBOB @ 8.9 psi and 2% Natural Gasoline @ 12 psi (1.3% Denaturant and 0.7% Blendstock)
 E70 @ 9 psi contains: 30% Natural Gasoline @ 12 psi (2% Denaturant and 28% Blendstock)
 E83 @ 6.7 psi contains: 17% Natural Gasoline @ 12 psi (2% denaturant and 15% Blendstock)

** Based on limited natural gasoline quality data

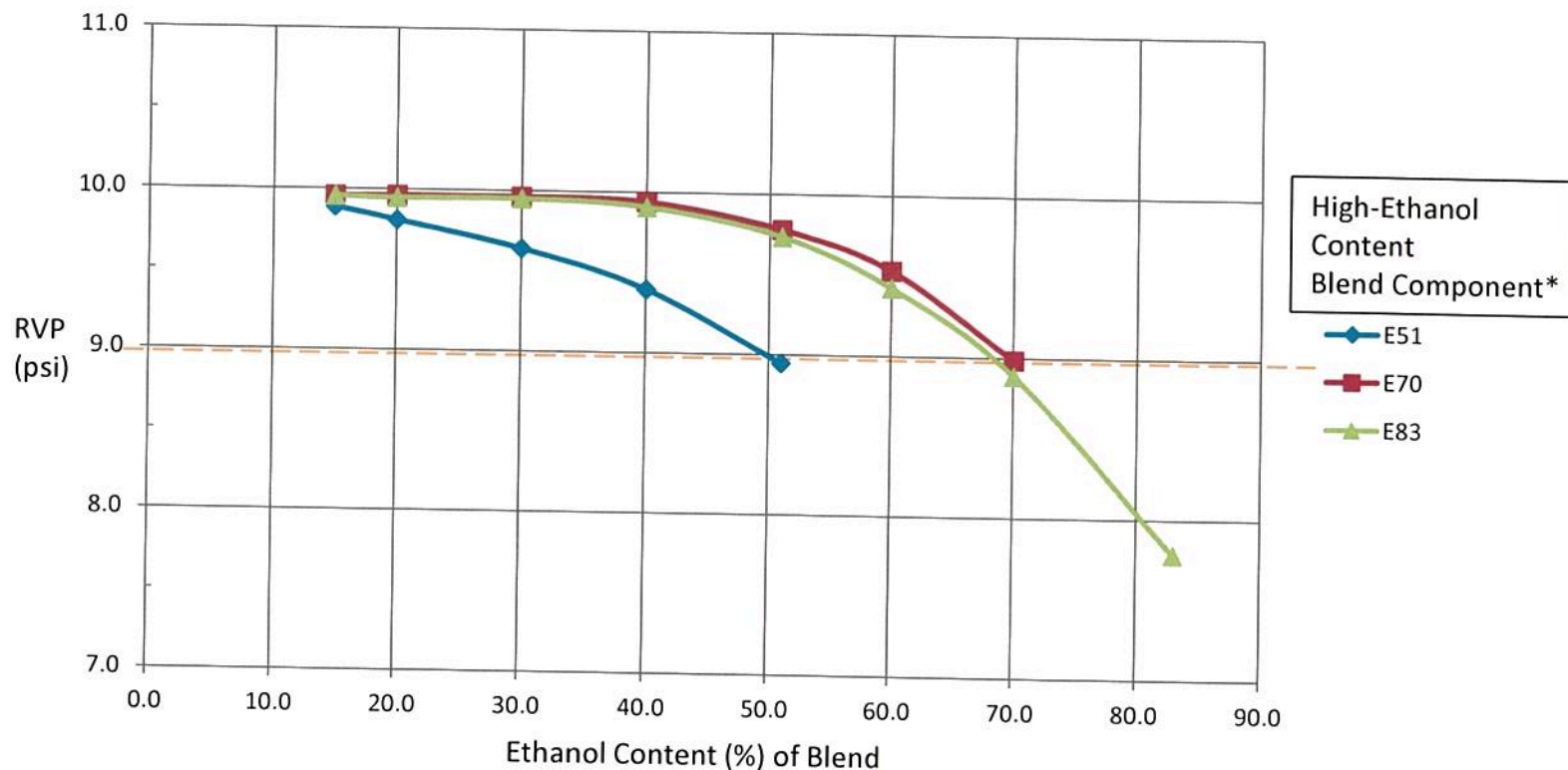
RVP modeling based on SAE paper 2007-01-4006,
 A Model for Estimating Vapor Pressures of Commingled Ethanol Fuels, Sam Reddy

12/5/14

ED-000313-0365-00000120

ED-000313-0365-00000120

Chart #2: RVP of Blends Made at Blender Pumps Using E10 at 10 psi & 9 psi Max. E85* That Contains High RVP (15 psi) Natural Gasoline 8.9 psi CBOB Used to Make E85 (as Needed)**



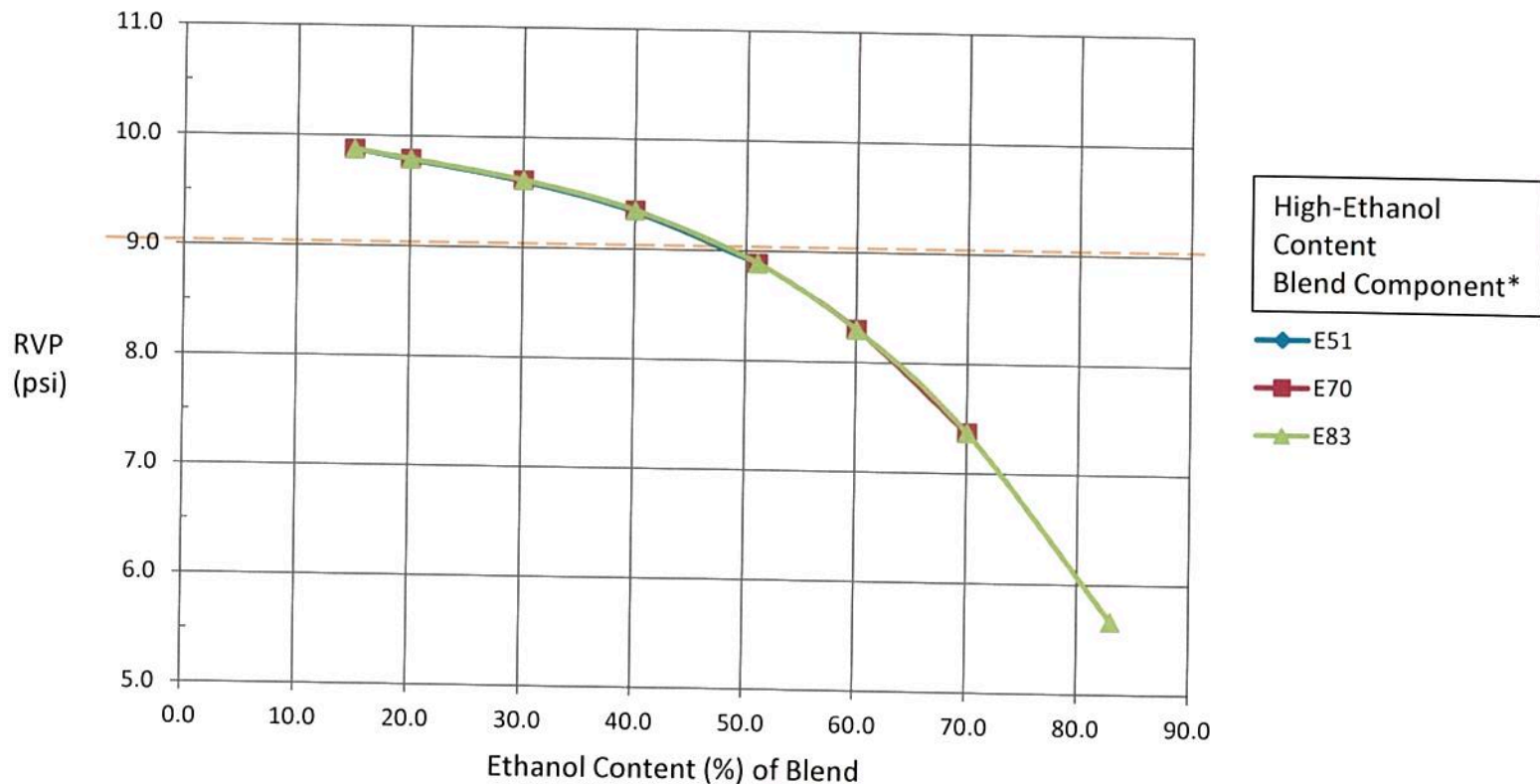
*
E51 @ 9 psi contains: 48% CBOB @ 8.9 psi and 1% Natural Gasoline @ 15 psi (Denaturant)
E70 @ 9 psi contains: 15% CBOB @ 8.9 psi and 15% Natural Gasoline @ 15 psi (2% Denaturant and 13% Blendstock)
E83 @ 7.8 psi contains: 17% Natural Gasoline @ 15 psi (2% denaturant and 15% Blendstock)

**
Based on limited natural gasoline quality data

RVP modeling based on SAE paper 2007-01-4006,
A Model for Estimating Vapor Pressures of Commingled Ethanol Fuels, Sam Reddy

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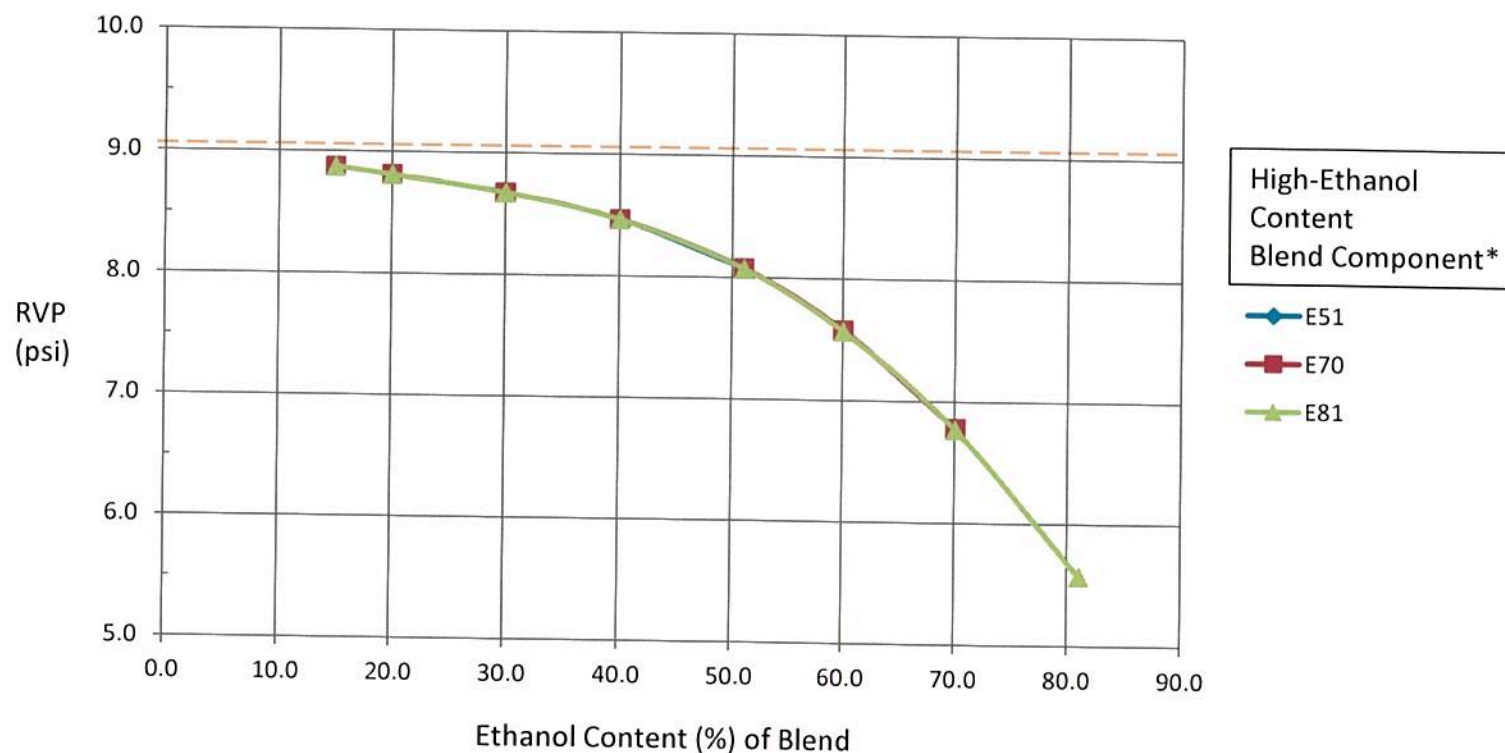
**Chart #3: RVP of Blends Made at Blender Pumps Using E10 at 10 psi & 9 psi Max. E85* That Contains No Natural Gasoline Blendstock
8.9 psi CBOB Used to Make E85**



*
E51 @ 9 psi contains: 48% CBOB @ 8.9 psi and 1% Natural Gasoline @ 12 psi (Denaturant)
E70 @ 7.4 psi contains: 28% CBOB @ 8.9 psi and 2% Natural Gasoline @ 12 psi (Denaturant)
E83 @ 5.7 psi contains: 15% CBOB @ 8.9 psi and 2% Natural Gasoline @ 12 psi (Denaturant)

RVP modeling based on SAE paper 2007-01-4006,
A Model for Estimating Vapor Pressures of Commingled Ethanol Fuels, Sam Reddy

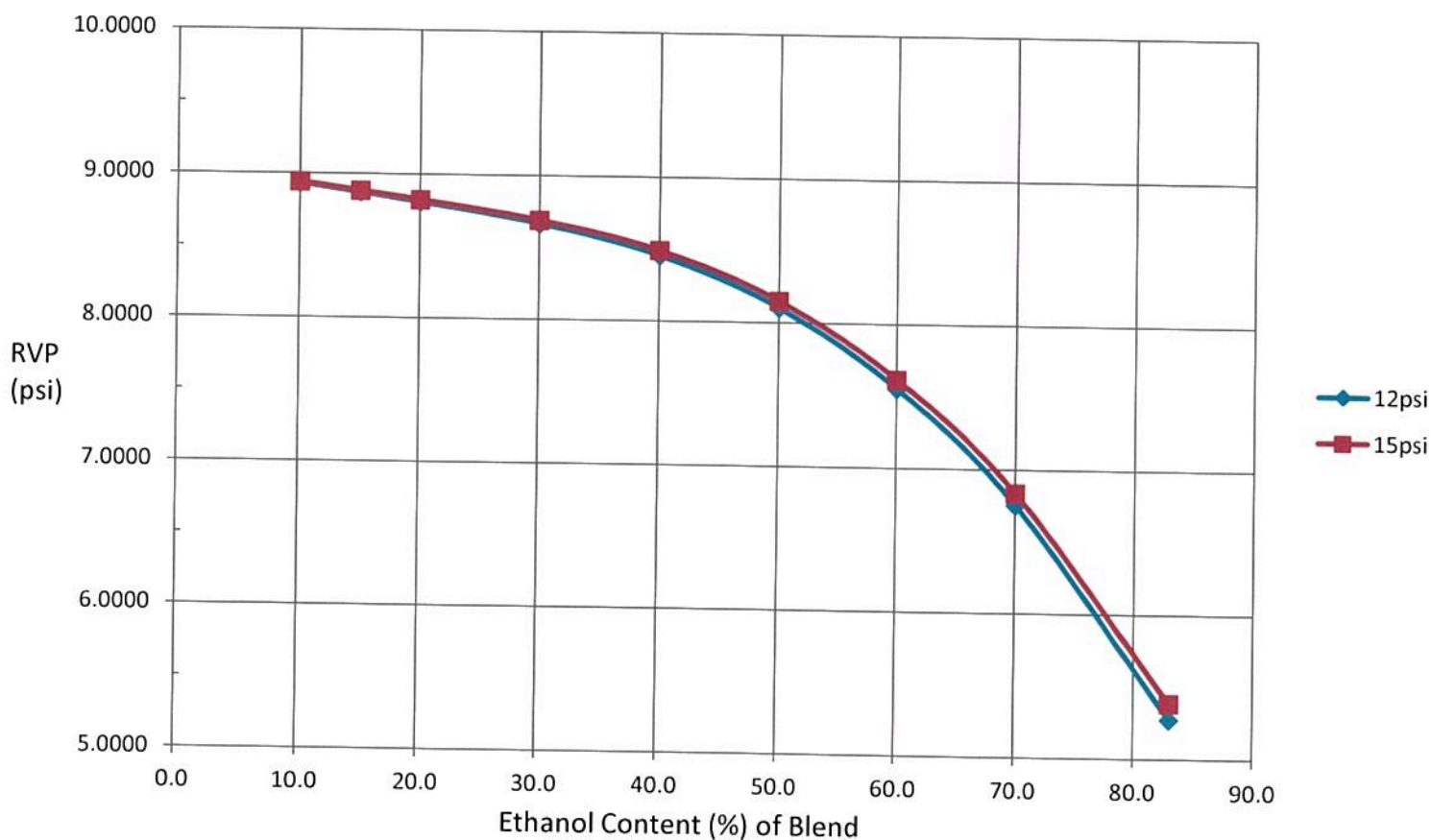
**Chart #4: RVP of Blends Made at Blender Pumps Using E10 at 9 psi & 9 psi Max. E85* That Contains No Natural Gasoline Blendstock
7.8 psi CBOB Used to Make E85**



*
 E51 @ 8.1 psi contains: 48% CBOB @ 7.8 psi and 1% Natural Gasoline @ 12 psi (Denaturant)
 E70 @ 5.8 psi contains: 28% CBOB @ 7.8 psi and 2% Natural Gasoline @ 12 psi (Denaturant)
 E81 @ 5.6 psi contains: 17% CBOB @ 7.8 psi and 2% Natural Gasoline @ 12 psi (Denaturant)

RVP modeling based on SAE paper 2007-01-4006,
 A Model for Estimating Vapor Pressures of Commingled Ethanol Fuels, Sam Reddy

Chart #5: RVP of Blends Made at Blender Pumps Using E10 at 9 psi & E98 with 12 psi and 15 psi natural gasoline as denaturant



RVP modeling based on SAE paper 2007-01-4006,
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<info=biodiesel.org@mail53.atl91.mcsv.net> on behalf of Donnell from National Biodiesel Conference & Expo <info@biodiesel.org>
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Subject: David, Fuel Up In Fort Worth!

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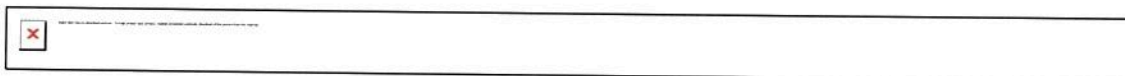
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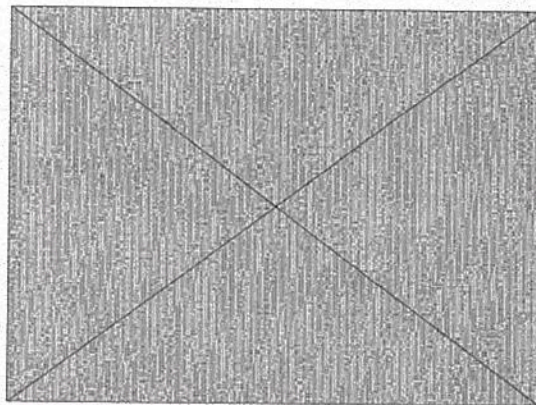
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From: Dec. Biodiesel Bulletin
Sent: Mon 12/1/2014 8:30:24 PM
Subject: Voters Give a Strong "Yes!" to Biodiesel Policy

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December 1, 2014

Voters Give A Strong "Yes" to Biodiesel Policy



Policies supporting biodiesel production would win a resounding vote of confidence if they were on the ballot in last month's elections, according to a nationwide survey

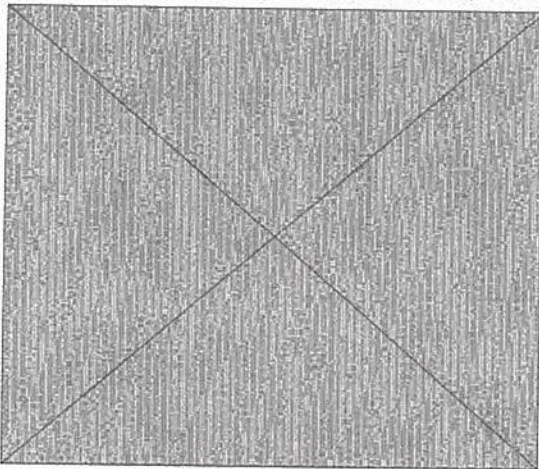
conducted by the National Biodiesel Board ahead of the November elections.

Three out of four voters (75 percent) support a tax incentive for biodiesel, the survey found. Seventy-six percent said they support a national renewable fuel standard. The survey of nearly 1,200 registered U.S. voters was conducted by Moore Information Opinion Research.

"These numbers reflect overwhelming public support for developing cleaner, alternative fuels so that we're not so dangerously dependent on petroleum," said Anne Steckel, NBB's vice president of federal affairs. "These policies are popular because they are effective. We're gradually reducing our dependence on oil. We're reducing harmful and costly pollution. And we're creating jobs and economic activity at home. Congress and the Obama administration should take cues from the people who elected them and step up to make sure we have strong, stable policies supporting biodiesel production."

Among other findings in the survey, 85 percent of respondents said a candidate's position on energy issues was somewhat important or very important in their voting decision, and 78 percent said a candidate's position on alternative fuels was very important or somewhat important.

Call to Action on Biodiesel Tax Incentive



biodiesel tax incentive

It's crunch time for advocacy on the

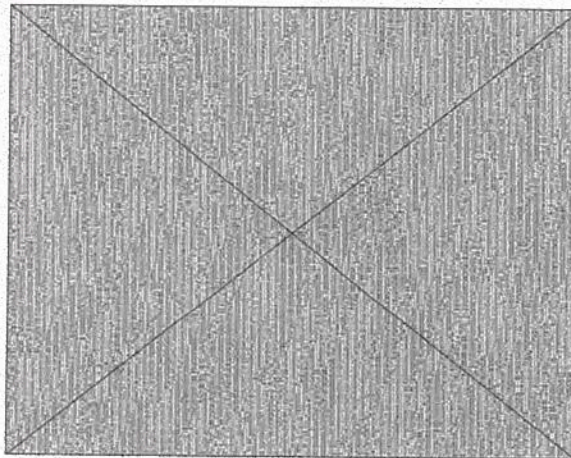
Negotiations are well underway on a deal to renew a package of expired tax incentives known as "tax extenders," and this is the best chance for the biodiesel incentive to be reinstated this year. The National Biodiesel Board is calling on all biodiesel supporters to contact their U.S. senators and representatives regularly during the "lame duck" session before Congress adjourns this year to press them to fight for reinstating the biodiesel incentive.

The biodiesel tax incentive is in a good position to be included in legislation thanks to the groundwork NBB and industry supporters have laid earlier in the year. In April, the Senate Finance Committee included biodiesel in a bipartisan tax extenders bill containing about 50 incentives to be reinstated. That bill is currently serving as a baseline for negotiations, but there will be efforts to block it or cut it back significantly, so it is critical that the biodiesel community remains vocal and aggressive. Supporters can start today by calling lawmakers' offices in Washington – both U.S. senators and U.S. representatives.

To find individual members of Congress and their contact information, visit the [Senate website](#) and the [House website](#). NBB has drafted [talking points](#) that should be helpful. They are posted here [on the NBB Fueling Action website](#). Additionally, if assistance is needed in reaching members of Congress, don't hesitate to call NBB's Washington office at 202-737-8801 or email Ben Evans at bevans@biodiesel.org.

This has been a difficult year for many in the biodiesel community, but hopefully the industry can end on a positive note by working together to make our voices heard on this important issue.

NBB Launches #PumpUpBiodiesel Social Media Campaign in November



NBB launched a social media campaign in mid-November aimed to garner support for biodiesel and spread the word about its benefits.

The EPA and the White House continue to review the proposed rule for biodiesel under the 2014 Renewable Fuel Standard, so the campaign was aimed at sharing positive information about biodiesel. As many supporters already know, biodiesel has a variety of benefits including; reducing greenhouse gas emissions, creating American jobs and reducing our dependence on foreign oil. The grassroots push by biodiesel supporters and stakeholders took place during a time that would hopefully grab the Administration's attention while promoting the benefits of the fuel.

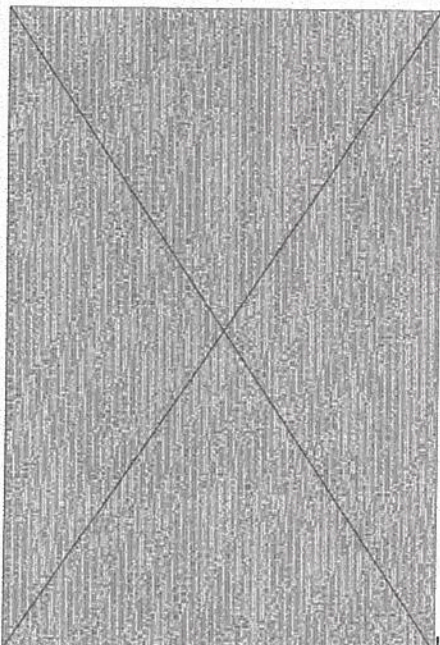
Participants used the hashtag, #PUMPUPBiodiesel, on both twitter and Facebook throughout mid-to-late November. This hashtag reflects the industry's goals of growing the biodiesel market to 10 billion gallons by 2022. It also ties to the industry's call for an increase in volumes under the RFS.

You can view the site for the social media campaign at www.biodiesel.org/pumpupbiodiesel where signs that include several statements as to why America should #PUMPUPBiodiesel

can be found. NBB asked participants to take a photo of themselves or with their colleagues, family, and/or friends holding the sign with the statement that resonated the most with them. To see the campaign in action, visit [NBB's twitter page](#) and [Facebook page](#).

You can still participate in the #PUMPUPBiodiesel campaign by using the hashtag and by posting your pictures on NBB's social media pages. Keep an eye out for future pushes as we ramp up our efforts.

NBB Members Elect Industry Leadership



Last week National Biodiesel Board members gathered in St. Louis for the annual fall membership meeting. During the meeting members discussed a number of important topics and also voted to fill seven open positions on the governing board.

"Biodiesel has faced many challenges but with strong leadership from among all sectors of the industry we are in a position as an organization to face those challenges head on," said NBB CEO Joe Jobe. "This industry has produced more than a billion gallons of advanced biofuels each of the last three years and will continue to grow into the future under the direction of the board."

Officers elected to lead the board are:

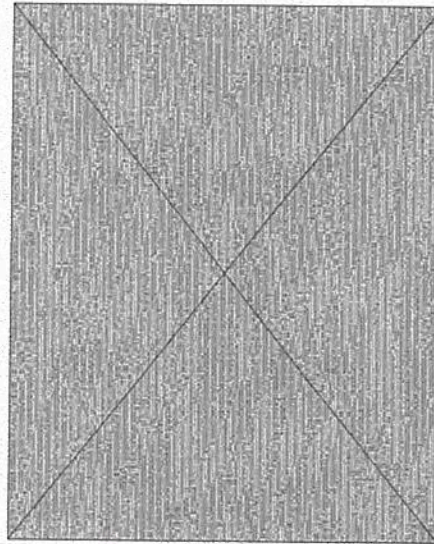
- Steven J. Levy, chairman, Sprague Operating Resources
- Ron Marr, vice chair, Minnesota Soybean Processors
- Mike Cunningham, treasurer, American Soybean Association
- Greg Anderson, secretary, Nebraska Soybean Board

Members elected to the Governing Board included officers Steven J. Levy, Greg Anderson, and Mike Cunningham along with:

- Jennifer Case, New Leaf Biofuel
- Tim Keaveney, HERO BX
- Robert Morton, Newport Biodiesel
- Ben Wootton, World Energy

Ron Marr, Gary Haer, Todd Ellis, Kent Engelbrecht, Ed Hegland, Bob Metz, Robert Stobaugh, and Ed Ulch also continue to serve on the Governing Board.

Area Clean Cities Honors DC Biodiesel Champions



The Greater Washington Region Clean Cities Coalition (GWRCCC) honored three biodiesel leaders from the Washington region for their commitment to reducing petroleum consumption by using alternative fuels. The individuals were recognized during the 2nd Annual Awards Luncheon at the Crystal Gateway Marriott in Crystal City, VA.

The GWRCCC recognized William Howland, Director, DC Department of Public Works; Timothy Fitzgerald, Fleet Director, DC Water; and Christopher O'Brien, Director of Sustainability, American University.

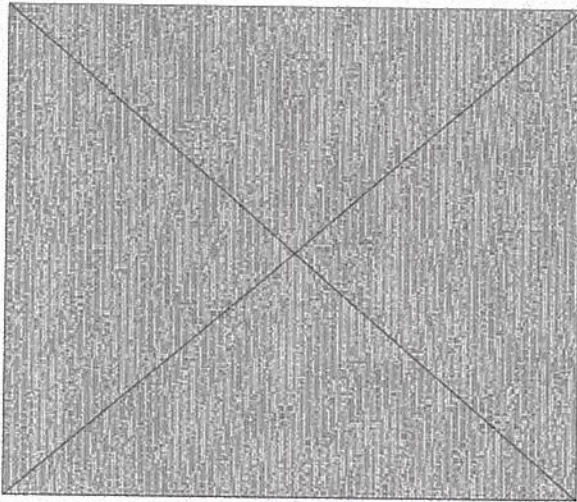
"Each of these individuals has demonstrated a strong commitment to biodiesel, and their efforts are helping to reduce harmful emissions and protect our environment," said Steven J. Levy, National Biodiesel Board Chairman. "The biodiesel industry is grateful for their leadership in the nation's Capital where they serve as role models for a clean energy future."

The winners were honored in the following three categories:

- Member of the Year Award: **William Howland**, Director, DC Department of Public Works
- The Most Visionary Professional (MVP): **Timothy Fitzgerald**, Fleet Director, DC Water
- Sustainability Award (University): **Christopher O'Brien**, Director of Sustainability, American University

[Learn more](#) about GWRCCC and the other honorees.

General Sessions Promise to be Your Most Important Meetings at Conference



January 19-22 promises to be the best National Biodiesel Conference & Expo. Tuesday and Wednesday will contain some of the most significant meetings of the week. Each morning at 10:30 a.m. attendees will experience full powered, fast moving general sessions that provide industry perspective and dialogue only available in Fort Worth.

Participants will experience the depth and expertise of the biodiesel industry and trade associations. Features include political leaders, industry experts, influential CEOs, NBB leadership, and insightful and relevant keynote speakers. Dr. Valerie Patrick, Founder and President of Fulcrum Connection LLC is just one of the many significant speakers to address conference attendees.

Dr. Patrick is slated to deliver a thought-provoking and timely keynote address. She is a trained scientist and facilitator that helps technical organizations improve productivity through critical thinking and science-based collaboration. Combined with her 25 years of corporate experience she is a leader in technical and strategic initiatives that have worked to identify and pursue new sources of organizational value for both Bayer and Monsanto.

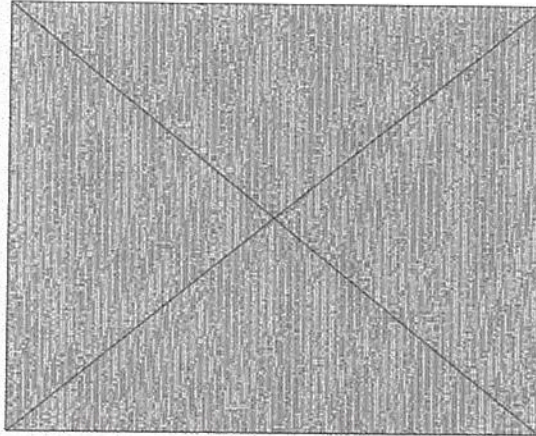
She served as inaugural Chairperson of the Association for Climate Change Officers Board of Directors and now serves on ACCO's advisory board. She received a Silver Facilitation Impact Award from the International Association of Facilitators in 2014. Dr. Patrick is a Certified Professional Facilitator, an SOQ Qualified Climate Practitioner, and a Trained Creative Problem Solving Facilitator. Dr. Patrick received her Chemical Engineering B.S. from Bucknell University and her Chemical Engineering M.S./Ph.D. from California Institute of Technology.

Don't miss Dr. Patrick's keynote, or any of the influential industry leaders that will be featured during the conference. See you at the general sessions!

Alternative Fuel Station to Open Near O'Hare

Biodiesel Magazine Advertising Prime Space to Reach Industry

The January/February issue of *Biodiesel Magazine* is distributed to all attendees at the



As part of the ongoing sustainability efforts at Chicago's airports, the Chicago Department of Aviation (CDA) announced the development of a 4,000-square-foot travel center featuring a range of alternative fuels and food options on city-owned vacant land near O'Hare International Airport.

According to Neysan Rassekh of PMG Airport Developers, "This innovative partnership with Clean Energy allows us to create the next generation in fuel and food options. A one stop shop where traditional fuel, compressed natural gas (CNG), biodiesel, and electric charging stations compliment a variety of food offerings."

Located at the Southeast corner of Higgins Road and Patton Drive, the travel center will offer CNG, biodiesel, fast-charge charging stations for electric vehicles, conventional gasoline, and food options.

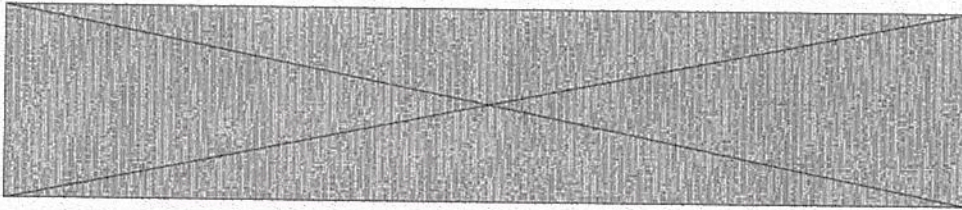
"Providing better access to alternative fuels at O'Hare provides multiple benefits for the City and the public," said Rahm Emanuel, Mayor of Chicago. "We are able to reduce greenhouse gas emissions and improve air quality, while at the same time generating revenue."

The announcement was made at the Airports Going Green Conference (AGGC), the airport industry's leading sustainability forum. Airports Going Green Conference is hosted annually by the CDA and the American Association of Airport Executives.

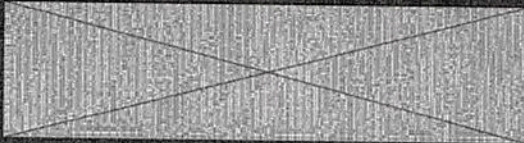
The target open date for the travel center is early 2016.

National Biodiesel Conference. It will also be distributed at the Commodity Classic. Advertising space in this issue is open for reservation until Wednesday, December 3rd. Themed around biodiesel process technology and plant optimization, the January/February 2015 issue of *Biodiesel Magazine* will highlight the latest advances in the biodiesel technology sector, including commercialization efforts in liquid and immobilized enzymatic processing, microwave research and development, new pretreatment methods, and optimization techniques from some of the most recognized names in the industry. In addition to feature and contribution articles emphasizing technology and optimization, the January/February issue will include the latest biodiesel news, business briefs and updates from your trade organization, the National Biodiesel Board.

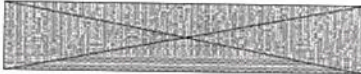
If you are interested in becoming a part of our largest issue of the year, please contact *Biodiesel Magazine* at 866-746-8385 or by email at service@bbiinternational.com. You can also stay up-to-date with all the latest biodiesel industry news by subscribing to the magazine. Click here for more information: <http://biodieselmagazine.com/pages/subscribe/>.



[For the latest issue of *Biodiesel Magazine* click here.](#)



P.O. Box 104898
Jefferson City, MO 65110-
4898



To: Chris Bliley[cbliley@growthenergy.org]
Cc: Korotney, David[korotney.david@epa.gov]; Anderson, Robert[Anderson.Robert@epa.gov]; Parsons, Nick[Parsons.Nick@epa.gov]; Machiele, Paul[machiele.paul@epa.gov]
From: Herzog, Jeff
Sent: Wed 11/26/2014 7:06:36 PM
Subject: RE: Chart on RVP of Blends at Blender pumps made with E10 at 9psi and denatured ethanol

Thanks Chris ... I'm in tomorrow and will take a look. However, it may have to wait until Dave gets back on Monday for us to sort things out.

Jeff

Jeff Herzog, U.S. EPA, OTAQ, ASD

(734) 214-4227

From: Chris Bliley [mailto:cbliley@growthenergy.org]
Sent: Wednesday, November 26, 2014 1:19 PM
To: Herzog, Jeff
Cc: Korotney, David; Anderson, Robert; Parsons, Nick; Machiele, Paul
Subject: RE: Chart on RVP of Blends at Blender pumps made with E10 at 9psi and denatured ethanol

Jeff et al,

As mentioned, we'll want to have some follow-up, but Mark and I did want to provide some immediate feedback on the blending RVP modeling from technical staff at Poet Ethanol Products – comments and graph are below. Thanks again and I'm sure we'll talk to you soon.

Chris

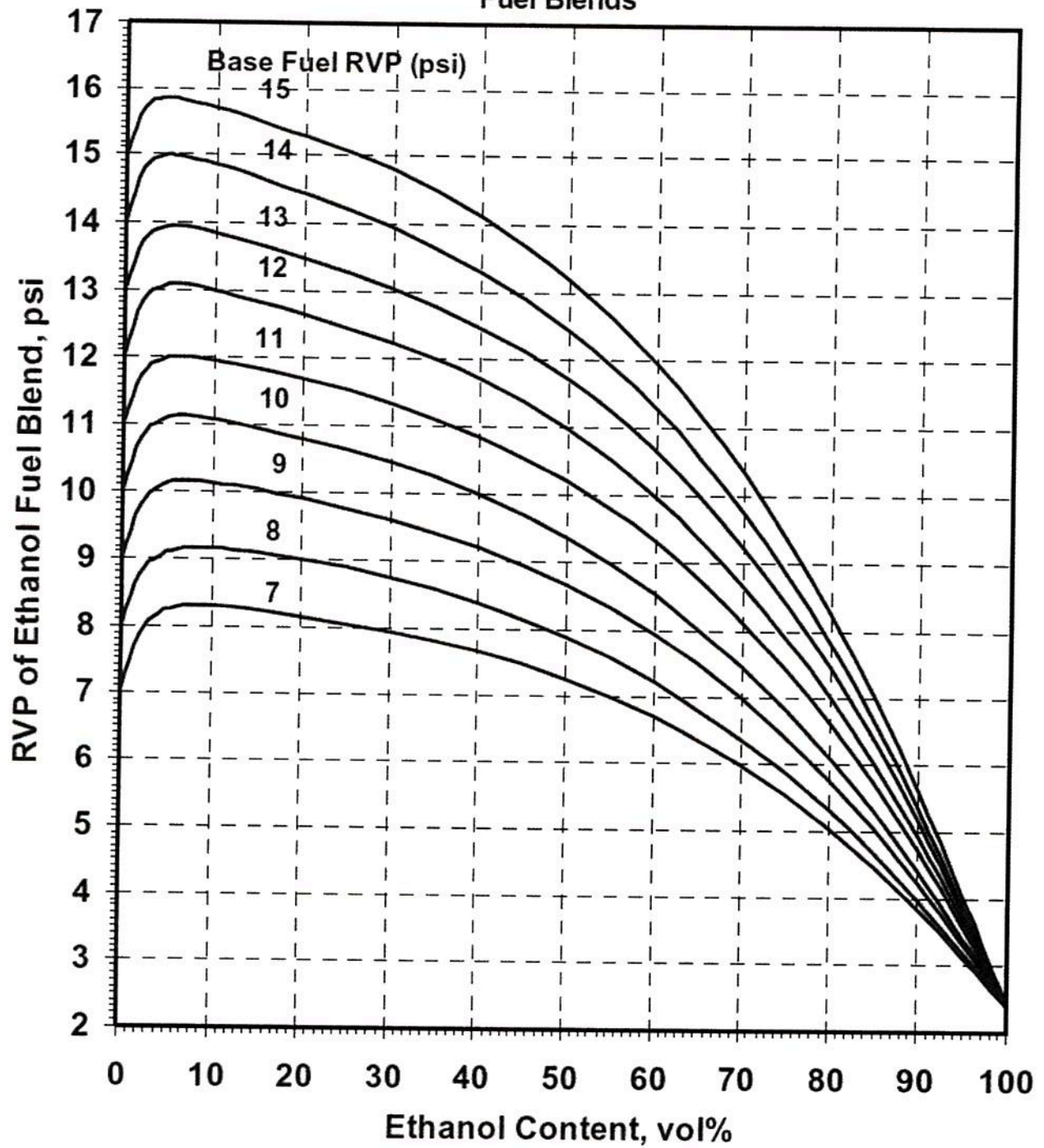
There is a flaw in their model. If you look at the SAE paper they site, the nomograph titled

“Figure 2. Nomograph for Estimating the RVP’s of Commingled Fuel Blends”, it shows very clearly that at a 50% ethanol concentration and 8 PSI hydrocarbon the RVP is back to the original hydrocarbon RVP. As the hydrocarbon RVP increases, the RVP of a 50% ethanol blend decreases below the original hydrocarbon RVP. This SAE paper also states the RVP of a hydrocarbon blend can be estimated by a weighted average calculation. See Equation 3 in the paper.

Therefore, a 50:50 blend of 9 PSI E10 and E98 with 15 PSI denaturant would consist of 45% CBOB (approximately 8 PSI), 1% denaturant (15 PSI) and 54% Ethanol. This blend would have a hydrocarbon RVP of 8.15 PSI according to the paper. A 50% ethanol blend would have even less denaturant and therefore a lower hydrocarbon RVP. All of these blends would have a total RVP equal to or less than the hydrocarbon RVP according to figure 2. Therefore, the EPA graph showing an increased RVP to greater than 10 psi (an increase of almost 2.5 psi) demonstrates an obvious flaw in the model.

No RVP modeling or testing has ever shown a 2.5 psi increase due to blending ethanol.

Figure 2. Nomograph for Estimating the RVP's of Commingled Fuel Blends



From: Chris Bliley
Sent: Wednesday, November 26, 2014 11:40 AM
To: 'Herzog, Jeff'
Cc: Korotney, David; Anderson, Robert; Parsons, Nick; Machiele, Paul
Subject: RE: Chart on RVP of Blends at Blender pumps made with E10 at 9psi and denatured ethanol

Thanks Jeff and thanks all for the conversation yesterday. We will likely want to follow up on some of the issues – particularly as it relates to the production of E85/EFF.

Thanks again and hope everyone has a good Thanksgiving.

Chris

From: Herzog, Jeff [<mailto:Herzog.Jeff@epa.gov>]
Sent: Wednesday, November 26, 2014 11:35 AM
To: Chris Bliley
Cc: Korotney, David; Anderson, Robert; Parsons, Nick; Machiele, Paul
Subject: Chart on RVP of Blends at Blender pumps made with E10 at 9psi and denatured ethanol

Chris,

Attached is a chart on the RVP of blends at blender pumps made with E10 at 9psi and denatured ethanol. Please pass along to Mark and Tom.

Happy Thanksgiving,

Jeff

Jeff Herzog, U.S. EPA, OTAQ, ASD

(734) 214-4227

To: Chris Bliley[cbliley@growthenergy.org]
Cc: Korotney, David[korotney.david@epa.gov]; Anderson, Robert[Anderson.Robert@epa.gov];
Parsons, Nick[Parsons.Nick@epa.gov]; Machiele, Paul[machiele.paul@epa.gov]
From: Herzog, Jeff
Sent: Wed 11/26/2014 4:34:32 PM
Subject: Chart on RVP of Blends at Blender pumps made with E10 at 9psi and denatured ethanol
[E98 Blender Pump RVP Modeling Slide to Growth Poet N26.pptx](#)

Chris,

Attached is a chart on the RVP of blends at blender pumps made with E10 at 9psi and denatured ethanol. Please pass along to Mark and Tom.

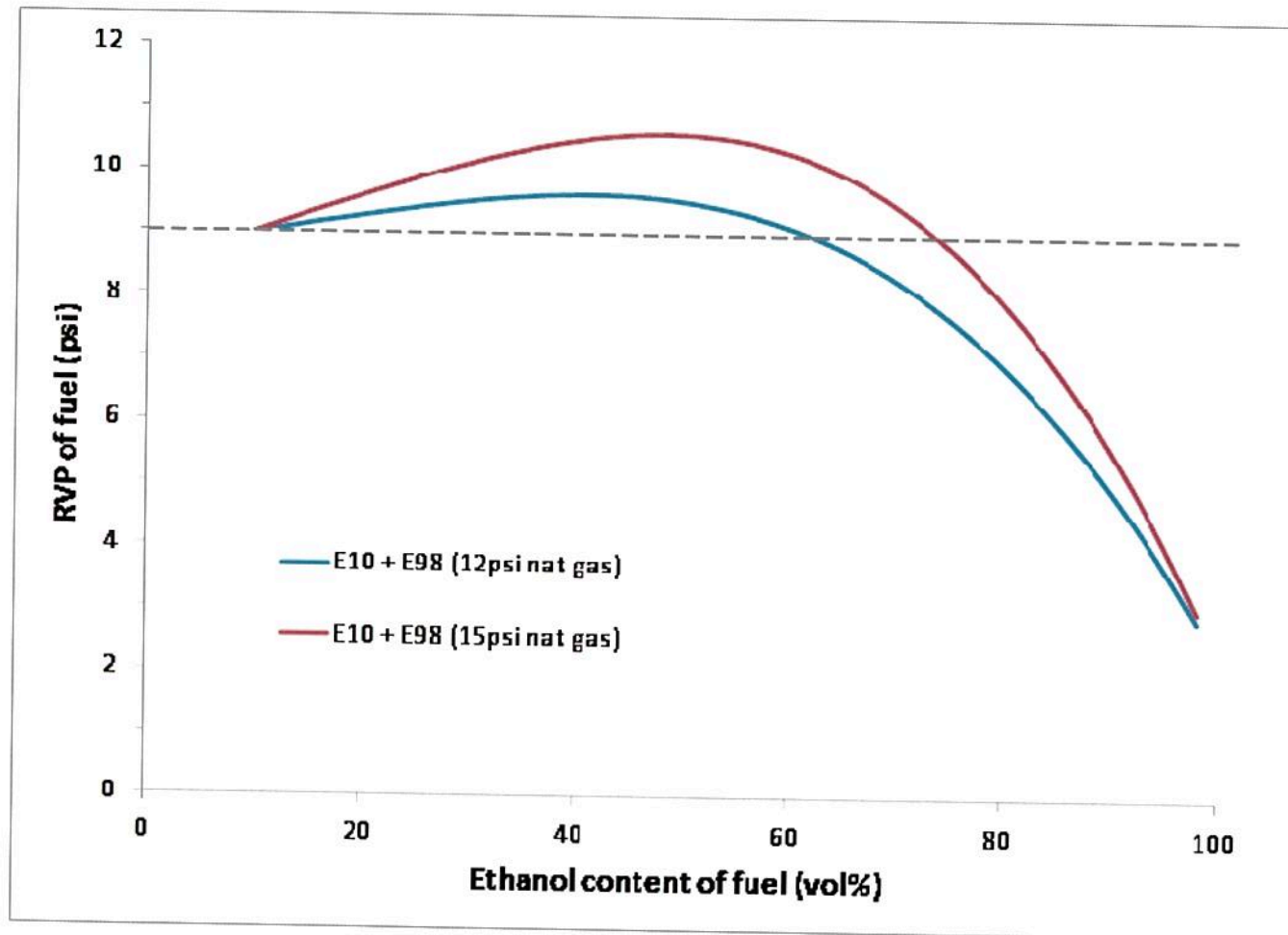
Happy Thanksgiving,

Jeff

Jeff Herzog, U.S. EPA, OTAQ, ASD

(734) 214-4227

Chart #5: RVP of Blends Made at Blender Pumps Using E10 at 9 psi & E98 with 12psi and 15 psi natural gasoline as denaturant



RVP modeling based on SAE paper 2007-01-4006,
A Model for Estimating Vapor Pressures of Commingled Ethanol Fuels, Sam Reddy

ED-111713-0365-00000 126

Meekins, Tanya

From: National Biodiesel Conference & Expo <info=biodiesel.org@mail171.atl21.rsgsv.net> on behalf of National Biodiesel Conference & Expo <info@biodiesel.org>
Sent: Thursday, November 20, 2014 3:52 PM
To: Korotney, David
Subject: How to Get Your Boss to Send You to Texas

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- C. Kickin' it at the [Fort Worth Stock Show and Rodeo](#)
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Of course D is the answer. Connect with industry experts at the biggest biodiesel event of the year. (And while you're there take advantage of A, B, & C - just don't mention those to your boss.)

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From: David Korotney



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From: Donnell from National Biodiesel Conference & Expo
<info=biodiesel.org@mail88.atl91.mcsv.net> on behalf of Donnell from National Biodiesel Conference & Expo <info@biodiesel.org>
Sent: Monday, November 17, 2014 12:03 PM
To: Korotney, David
Subject: Your Insider's Guide to Biodiesel

Your Insider's Guide to Biodiesel
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Dear David,

Have you ever gone on a road trip without looking at a map? I use my smart phone anytime I'm exploring someplace new. It's simple and part of the process, but vital to get to where you want to go.

Similarly it's challenging to navigate the industry's unpredictable terrain. *That's why we put together the National Biodiesel Conference and Expo.*

This conference is your insider's guide to biodiesel. It's your road map to navigate policies, regulations, and news. Let it be your advantage.

See you in Texas!

Donnell

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Sent: Friday, October 17, 2014 9:02 AM
To: Korotney, David
Subject: Will you be there?

4 Reasons to Be There
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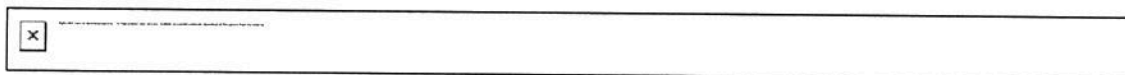
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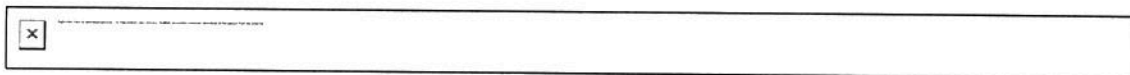
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Meekins, Tanya

From: National Biodiesel Conference & Expo <info=biodiesel.org@mail6.atl11.rsgsv.net> on behalf of National Biodiesel Conference & Expo <info@biodiesel.org>
Sent: Thursday, September 18, 2014 4:05 PM
To: Korotney, David
Subject: It's Open! Register for the 2015 National Biodiesel Conference

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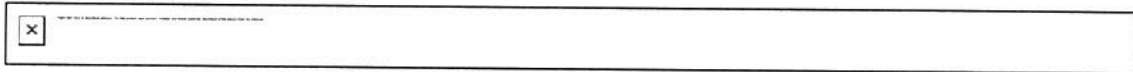
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From: September Biodiesel Bulletin <info@biodiesel.org>
Sent: Tuesday, September 02, 2014 4:49 PM
To: Korotney, David
Subject: Uncertainty Remains as RFS Volume Delay Continues

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September 2, 2014

[Uncertainty Remains as RFS Volume Delay Continues](#)

[Biodiesel Hits the Road as Students Hit the Books](#)

[Biofuels Tour Educates Through Immersion](#)

[2015 Biodiesel Conference: Certainty in Shifting Markets](#)

[Expand Your Alt-Fuel Bandwidth: Join the Biodiesel Alliance and Backers](#)

[Alt Fuel Conference to Include Diesel Tech Training](#)

[Driven by Bacon? With Biodiesel, You Bet](#)

[ISU Program Brings Biodiesel to Iowa Middle Schools](#)

Uncertainty Remains as RFS Volume Delay Continues

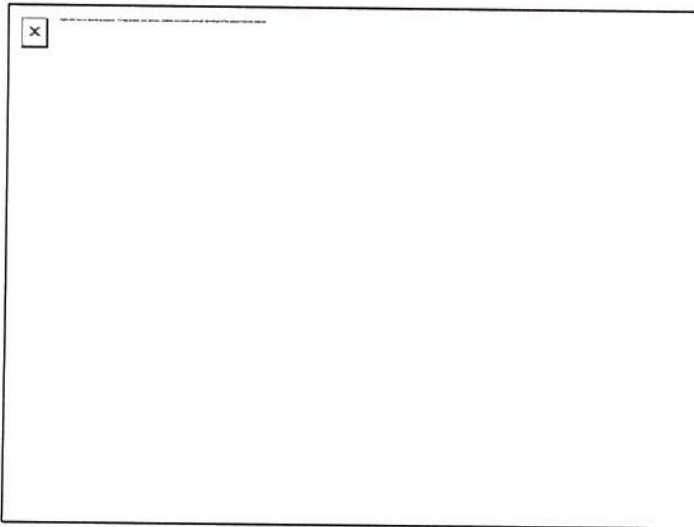
The EPA took a big step recently in finalizing the 2014 Renewable Fuel Standard (RFS) volumes when it sent its final proposal to the White House Office of Management and Budget (OMB) for interagency review on August 22. This is nine months behind EPA's statutory deadline of November 2013 to release the final rule. OMB typically takes 30 to 90 days for interagency review, a timeframe that would push the final release date anytime from mid-September to November, possibly after the

elections.

Uncertainty remains as EPA has not released any information regarding the final volume numbers for renewable fuels, including biodiesel. A number of elected officials have reported recently that the EPA has made clear that the biodiesel volume will increase from the original proposal of 1.28 billion gallons. To what extent, however, is not known.

The National Biodiesel Board and its members will continue to press the White House and others in the Administration that an increase to at least 1.7 billion gallons is critical for the industry's continued growth and success. Policy setbacks have taken a major toll on the biodiesel industry. A nationwide survey of producers conducted by NBB in April found that nearly 80 percent of U.S. biodiesel producers had scaled back production and more than half had idled production at a plant altogether.

Biofuels Tour Educates Through Immersion



The Iowa Renewable Fuels Association's Biofuels: Science & Sustainability Tour brought representatives from eight states to Iowa recently to see first-hand biodiesel, ethanol, and modern production agriculture. The four-day tour was designed to educate federal and state agency officials and US Congressional staff members on the wide-ranging benefits of biofuels to the nation.

"Coming from Iowa, the benefits of biodiesel have always been clear to me," said Evan Jurkovich, senior legislative assistant to Congressman Dave Loebsack, and tour attendee. "The biofuels tour only added emphasis to that and showed just how valuable the biodiesel industry is to our growing bioeconomy."

The group included staff members from Senate and House of Representative offices from both sides of the aisle representing Iowa, Georgia, North Carolina, Colorado, Oregon, Minnesota, South Dakota, and New Hampshire, along with a number of agencies.

"With a variety of policy makers from all over on the tour, what I thought the most important part was seeing first-hand the high skilled jobs this brings to our rural economies," Loebsack said. "It was great to see that the biodiesel and bioeconomy industries are here and very real right now and are only going to continue to grow especially if a strong RFS is maintained."

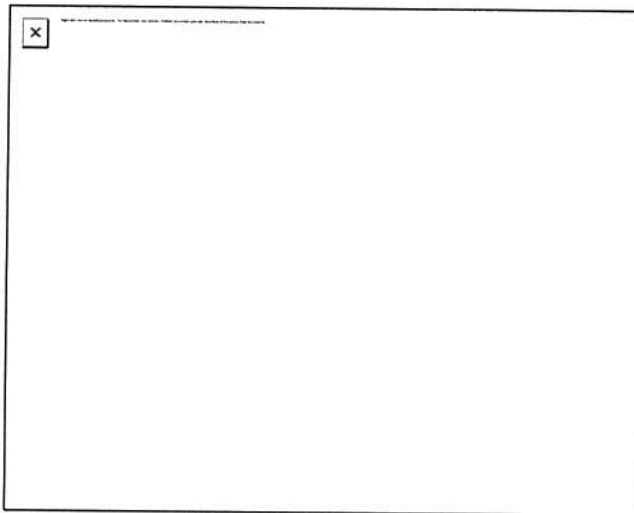
Attendees visited biodiesel producer Western Dubuque Biodiesel in Farley, Iowa and heard presentations on production, policy, sustainability, economics, and feedstock production from biodiesel industry representatives.

Other sponsors included the National Biodiesel Foundation, the Iowa Biodiesel Board, the Iowa Soybean Association, Iowa State University, and other biofuels groups.

Expand Your Alt-Fuel Bandwidth: Join the Biodiesel Alliance and Backers

What do John Deere, Willamette Valley Vineyards and the Silicon Valley Clean Cities Coalition have in common? They support biodiesel and stay up to date through the Biodiesel Alliance.

If you want to move American-made, cleaner burning biodiesel forward, the National Biodiesel Board invites you to join the [Biodiesel Alliance & Backers](#). You'll receive updates relevant to biodiesel, America's Advanced Biofuel, such as new pump openings in your area and exclusive webinars.



There are two options to choose from, or you can choose both! Your organization can join the [Alliance](#). This is a diverse coalition of organizations, agencies and businesses from across the nation that find common ground in their support for biodiesel fuel. As an individual, you can join the [Backers](#). NBB founded the Biodiesel Backers program in response to growing interest from people who wanted to learn about biodiesel information and opportunities. Join thousands of other Biodiesel Backers who recognize the benefits of biodiesel to energy security, the environment, human health and the U.S. economy!

Drive by Bacon? With Biodiesel, You Bet

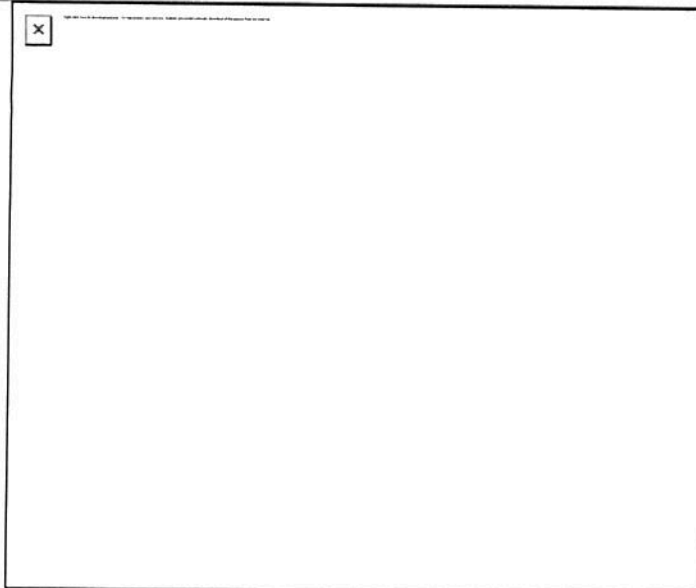
How on earth could someone drive a vehicle using bacon power? While it sounds far-out, Hormel Foods Corp. did just that last month by converting the grease left behind from frying up bacon into biodiesel and putting it into the tank of a custom diesel motorcycle.

The bike was built by CSE Engineering and was based on a 2011 Track T-800CDI model. Hormel Foods and marketing firm BBDO Minneapolis sponsored the biodiesel motorcycle to ride from Austin, Minnesota to San Diego for the International Bacon Film Festival. Along the way the crew filmed for a movie called, "[Driven By Bacon](#)" that was shown at the film festival August 29th.

"The journey is sort of the destination," said Scott Schraufnagel, account director for BBDO.

Hormel representatives say the marketing push is an exciting opportunity to spread the word about Hormel's Black Label Bacon brand and will likely be used as a promotional tool in the future.

It also brought a lot of positive attention to biodiesel along the way with stories in publications from coast-to-coast. While there likely won't be any commercial production



plants built specifically for bacon grease biodiesel production, it does highlight the wide variety of fats and oils that can be turned into biodiesel.

Biodiesel Hits the Road as Students Hit the Books

With children across the country back in school, many school districts are turning to biodiesel to help ensure the air they breathe is clean.

Anyone who has had to sit in traffic behind a diesel-fueled bus understands concerns about the more than 24 million children who ride some 440,000 buses to and from school each day.

Pollution from diesel vehicles has health implications for everyone, especially children. The use of biodiesel can reduce that threat. Here are some schools that are taking action:

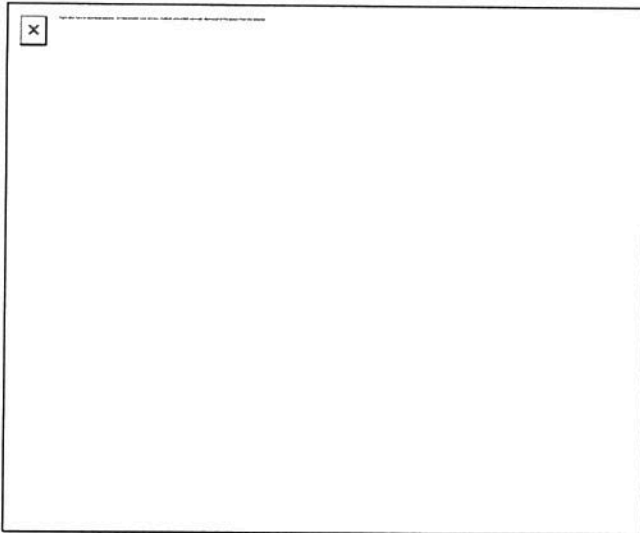
The Haverford, PA school district's fleet of 70 buses traveled over 716,000 miles last year, transporting more than 4,600 students and burned nearly 700,000 gallons of biodiesel. According to their reports, the district reduced particulate emissions by 521 pounds, while reducing carbon monoxide, hydrocarbons, carbon dioxide, and sulfur oxide and saving an estimated \$221,600 in health care costs.

Medford-Township Public Schools, in Medford, NJ became the first school district in the country to power its buses with biodiesel back in 1997. "We transport 3,500 students a day in our buses," said Joe Biluck, Director of Operations and Technology for Medford Township Public Schools. "This biodiesel program was started for them."

American University and Georgetown University, both located in our nation's capital, are two of the many universities that power their campus shuttle buses with biodiesel.

Is your school district, local college or university using biodiesel? If not, ask why and share [information](#) on why America's Advanced Biofuel – biodiesel – makes sense.

2015 Biodiesel Conference: Certainty in Shifting Markets



As we head into fall, now is the time to start planning your trip to the 12th annual National Biodiesel Conference & Expo, January 19-22, 2015 at the Fort Worth, Texas Convention Center.

"In my seventeen years in the biodiesel world the most predictable dynamic of this growing industry has been unpredictability; a constant evolution of the market and its ever-transforming challenges," said Joe Jobe, CEO of the National Biodiesel Board. "I can't tell you today with certainty

exactly what our landscape will look like when we meet in January for the conference. What I do know is that this conference will be at the center of it."

"As it has proven to be in years past, the conference will be a point of certainty. It is a place to come hear directly from those at the top of our field where we are and where we might be going. It is a place to see, meet and interact with those who are not only still standing but also thriving."

The conference has a proven track record. Investment in time and money to participate will return value to you and your organization in both dollars and your role in the industry.

Conference details can be found [here](#) in the coming weeks. If you have ideas for breakout sessions or speakers, please contact [Kaleb Little](#) in the NBB office.

Alt Fuel Conference to Include Diesel Tech Training

An event bringing together fleet managers and industry experts will be hosted at the North Carolina Clean Energy Technology Center October 22-24.

The [Southeast Alternative Fuel Conference](#) will provide networking opportunities, education on fleet efficiency and hands-on experience with

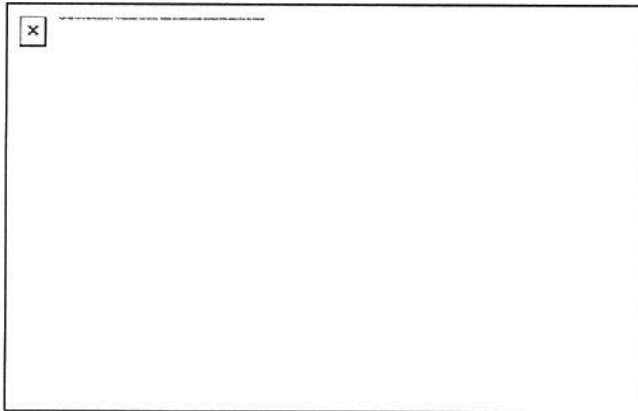
technology. The event will feature breakout sessions, one-on-one conversations with the nation's leading technology providers, 50 exhibitors and 20 vehicles at the Expo Hall and



Ride-and-Drive events. Attendees can hear alternative fuel success stories and discuss policies that affect the industry.

This year, the largest alternative fuels conference on the east coast will feature five free co-located events, including "[Biodiesel for Diesel Technicians Training](#)," presented by the National Biodiesel Board. Taking place October 22, the program is designed to train diesel auto-technicians to better understand biodiesel and advise their customers.

ISU Program Brings Biodiesel to Iowa Middle Schools



Biodiesel is making its way into Iowa's middle school science classrooms thanks to a new Iowa State University program.

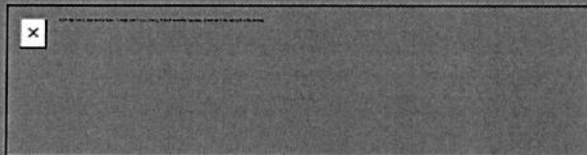
Teachers recently toured Renewable Energy Group, Inc. (REG)'s biorefinery in Newton, Iowa receiving an overview of the company's biodiesel business and production process. The visit was part of the Summer Academy for Middle School Teachers, a three-week

summer program at ISU that draws teachers from across the state.

The academy provides teachers with hands-on experiences, exposure to cutting-edge research, and an opportunity for collaboration with faculty. Through the academy, teachers develop classroom material related to renewable fuels and other products for their students. They also must complete a small research project and present on it.

"The focus is specifically on renewables and giving teachers a better understanding of the bioeconomy in Iowa," said Stacy Renfro, program coordinator at ISU. "We are teaching them why they are important and giving them firsthand experience, so they can then pass it on to their students."

Iowa's Experimental Program to Stimulate Competitive Research (EPSCoR) and the National Science Foundation Engineering Research Center for Biorenewable Chemicals (CBiRC) sponsor the academy which is in its fourth year. Teachers are selected through an application process.



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